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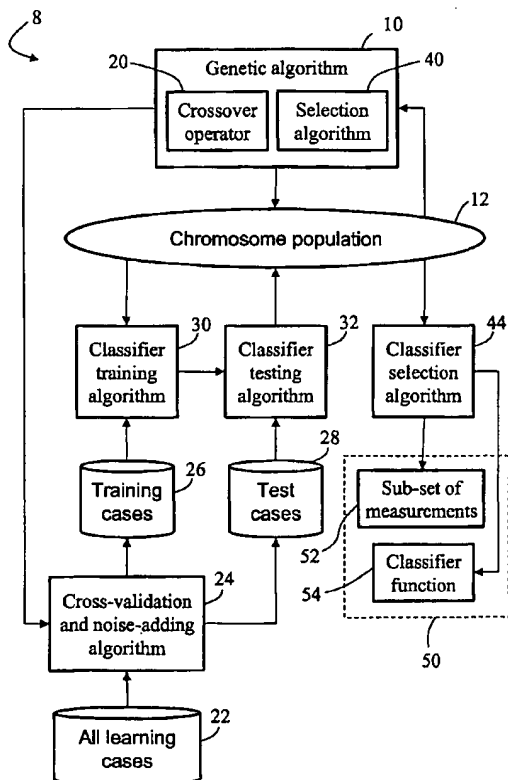
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**(54) Title:** GENETIC ALGORITHMS FOR OPTIMIZATION OF GENOMICS-BASED MEDICAL DIAGNOSTIC TESTS

**(57) Abstract:** In a genetic optimization method, the genes of a chromosome population are computationally genetically evolved. The evolving includes evolving a number of expressed genes in each chromosome and employing a fitness criterion evaluated without reference to unexpressed genes of each chromosome. An optimized chromosome produced by the genetic evolving is selected.





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